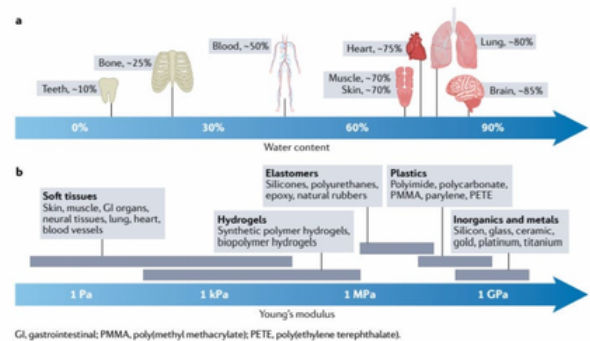
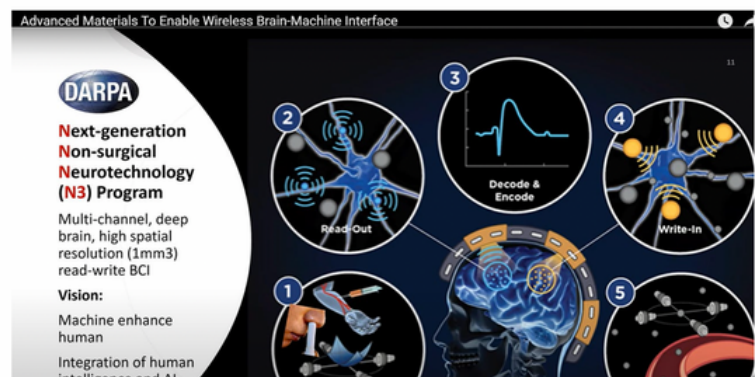
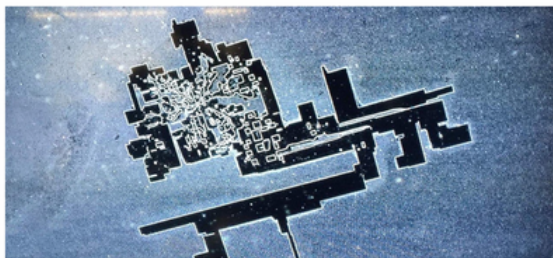
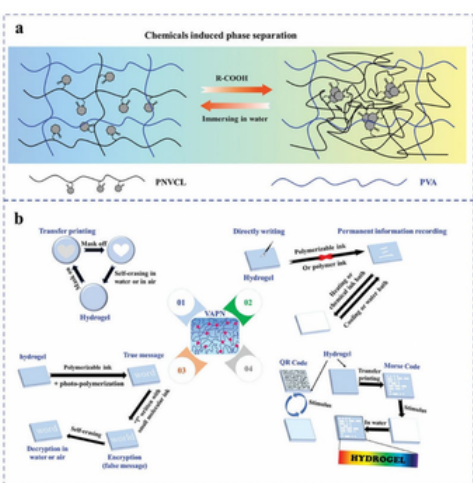


"Hydrogel Platform Enables Versatile Data Encryption And Decryption"



TRUTH11.COM

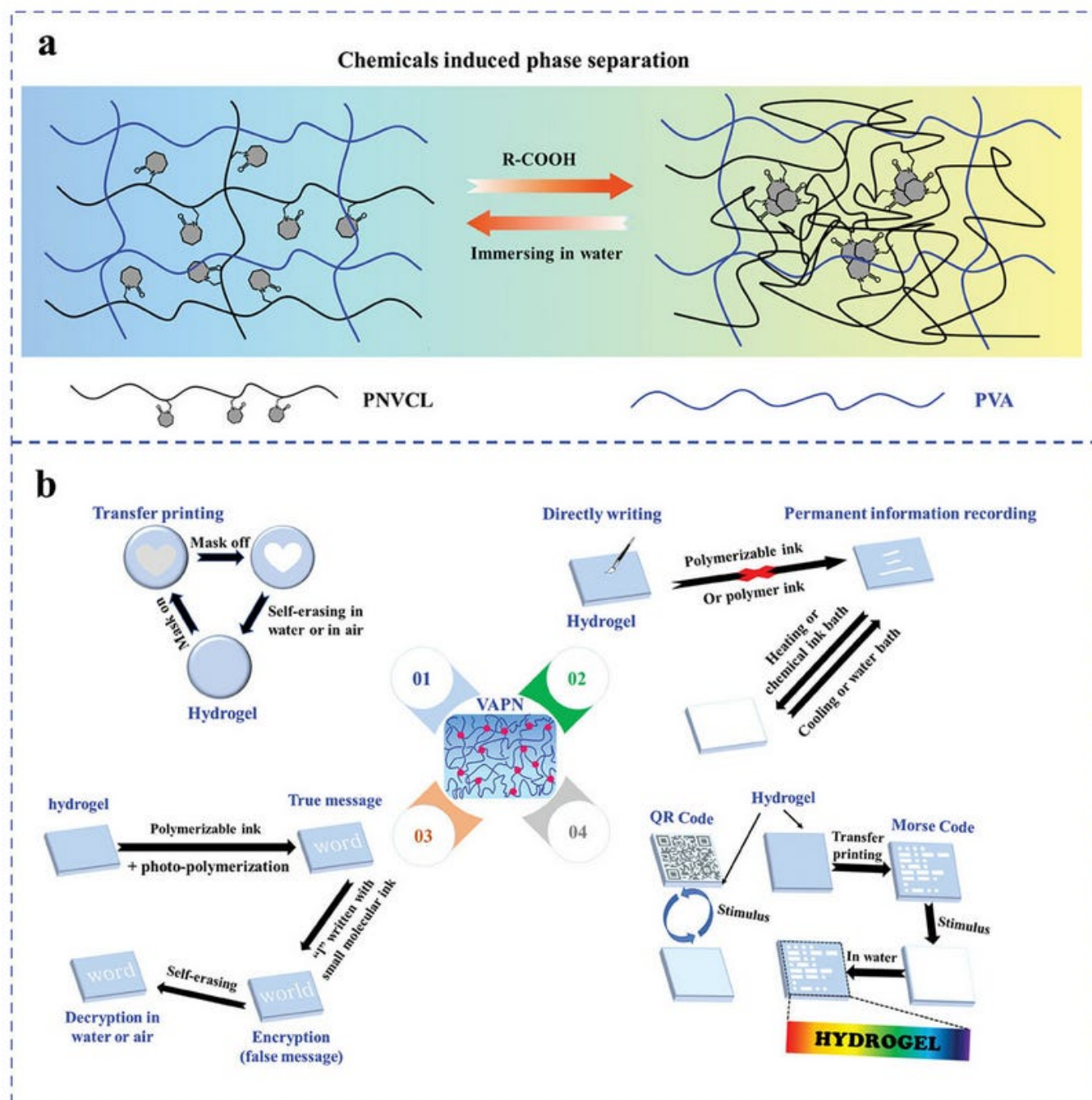
Feb 8, 2024 13 min



The Next Programmable Human Machine Interface Is "Smarter" Than You Think

Ana Maria Mihalcea MD PHD | Substack.com

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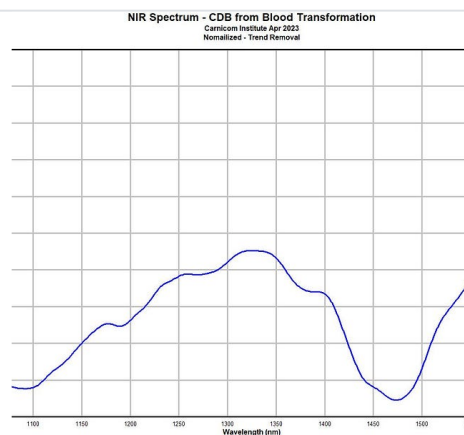
a) Schematic illustration of chemical ink-induced phase separation in composite VAPN hydrogel. **b)** Schematic summarizing the diverse array of applications of paper-like VAPN hydrogel for information storage, coding, encryption, and decryption (information self-erasing written by small-molecule ink, permanent information recording using polymer ink, information encryption by combined use of small-molecule and polymer inks, and information coding by More Code). (Reprinted with permission by Wiley-VCH Verlag)

This article that was just published on nanowerk. Hydrogels can now be programmed, encrypted and decrypted. We know that hydrogel is the substrate of the brain computer interface and the modality of fusing humans with machines as described previously in the MIT article linked below. One of the hydrogels used for this encryption modality is polyvinyl alcohol. That was the polymer that Clifford Carnicom and I found via Near Infrared spectroscopy in the hydrogel/CDB/Morgellons/advanced nanotechnology filaments in C19 vaccinated and unvaccinated blood.

Chemical Composition Analysis Of Synthetic Biology Cross Domain Bacteria (CDB) aka Hydrogel/Graphene Filaments In Unvaccinated Blood- Ana Mihalcea, MD, PhD In Conjunction With Clifford Carnicom

Image: Near Infrared Spectrum Analysis of the lower layer of CDB isolate from C19 unvaccinated blood. Executive Summary: In this...

 Humanity United Now - Ana Maria Mihalcea, MD, PhD • Ana...



To explain, Clifford calls the hydrogel filaments we see now in the blood CDB (Morgellons) - whatever you want to call them, this is their chemical signature isolated from C19 unvaccinated blood exposed to shedding and environmental contamination. They contain these hydrogel plastics - polyenes (polyethylene glycol), vinyl (polyvinyl alcohol), polyamide proteins (nylon, kevlar, (spider)silk proteins that misfold and can create amyloids and prion like precipitates). Additional nanotechnology signatures are silicone, sulfur. The technology hijacks methyl groups, which are needed to detoxify and create Glutathione in the body. It also contains Halogens like Iodine, Bromide, Fluoride, Chlorine.

Functional Group	Summary Group	Reference Peak(nm)	Peak Measurement(nm)	Peak Rating (0.5(ILO) - 3 (HI))	Delta (nm)(absolute value)	Rank by Weight
CH Methyl, CH3I (Methyl Iodine)	Methyl - Halogen	1661	1661	3	0	3.00
CH Methyl, CH3Cl (Methyl Chlorine)	Methyl - Halogen	1661	1661	3	0	3.00
Methylene, Aliphatic	Methylene	938	938	2	0	2.00
Vinyl & Vinylidene CH2=C(CH3)-CH=CH2	Vinyl	1630	1629	3	1	1.50
CH3 Methyl RC(CH3)3 or RCH(CH3)2	Methyl	1396	1397	2	1	1.00
Polyamide	Polyamide - NH	1515	1516	2	1	1.00
C-H Vinylidene ass. w/ (CH2=C<)	Vinyl	1631	1629	3	2	1.00
CH Methyl ROHCH3 Alcohol	Methyl - Alcohol	1664	1661	3	3	0.75
Alkenes, Polyenes	Alkenes, Polyenes	1170	1172	2	2	0.67
CH Methylene, Aliphatic Hydrocarbon	Methylene	1395	1397	2	2	0.67
Methyl CH3	Methyl	908	911	2	3	0.50
Aromatic Amine	Aromatic	1456	1455	1	1	0.50
CH Methyl Bromine CH3Br	Methyl - Halogen	1655	1661	3	6	0.43
Methyl Aliphatic CH3	Methyl	915	911	2	4	0.40
NH or NH2 Amide/Protein	Amide - Protein - NH	1520	1516	2	4	0.40
NH Secondary Amine as R-NH-R	Amide - Protein - NH	1520	1516	2	4	0.40
CH Methyl Nitro CH3NO2	Methyl	1654	1661	3	7	0.38
OH from Water		979	981	1	2	0.33
OH from Water		1453	1455	1	2	0.33
NH Amide Amide/Protein	Amide - Protein - NH	1570	1572	1	2	0.33
NH Bonded - Polyamide	Polyamide - NH	1570	1572	1	2	0.33
OH Alkyl Alcohol	Alcohol	962	956	2	6	0.29
CH Aromatic Alkyl	Aromatic	1671	1661	3	10	0.27
Si-O from Silicone	Silicone - Oxygen	1452	1455	1	3	0.25
Methylene CH2	Methylene	930	938	2	8	0.22
Polymeric Alcohol	Alcohol	1450	1455	1	5	0.17
Carbonyl Group	Carbonyl	1450	1455	1	5	0.17
OH from Tertiary Alcohols -C-OH	Alcohol	1006	1008	0.5	2	0.17
SH	Sulfur Hydrogen	1308	1326	3	18	0.16
Aliphatic Hydrocarbon CH	Methylene	1225	1233	1	8	0.11
SH	Sulfur Hydrogen	1270	1255	1	15	0.06
Alkyl Aromatic ArCH	Aromatic	1130	1120	0.5	10	0.05

Image: NIR Chemical Signature Fingerprint of CDB lower layer

Polyvinyl alcohol is plastic. It is also mentioned as one of the stealth nanoparticles in the Moderna patent for lipid nanoparticle composition. The other composite of this special hydrogel is polycaprolacton. That is also found in this Moderna patent as a stealth nanoparticle. This suggests that the stealth lipid nano particle technology of the C19 bioweapon has the composite ingredients to have this hydrogel encryption possibility in over 5 Billion C19 injected humans for the achievement of the brain computer interface.

(12) **United States Patent**
Packer et al.

(10) **Patent No.:** **US 11,622,972 B2**
(45) **Date of Patent:** ***Apr. 11, 2023**

(54) **LIPID NANOPARTICLE COMPOSITIONS
AND METHODS OF FORMULATING THE
SAME**

(71) Applicant: **ModernaTX, Inc.**, Cambridge, MA
(US)

8,450,298	B2	5/2013	Mahon et al.
8,460,696	B2	6/2013	Slobodkin et al.
8,460,709	B2	6/2013	Ausbons et al.
8,568,784	B2	10/2013	Lillard et al.
8,569,256	B2	10/2013	Heyes
8,580,297	B2	11/2013	Essler et al.
8,642,076	B2	2/2014	Manoharan et al.

In some embodiments, the lipid nanoparticles described herein are stealth nanoparticles or target-specific stealth nanoparticles such as, but not limited to, those described in U.S. Pub. No. US20130172406, herein incorporated by reference in its entirety. The stealth or target-specific stealth nanoparticles can comprise a polymeric matrix, which can comprise two or more polymers such as, but not limited to, **polyethylenes**, polycarbonates, polyanhydrides, polyhydroxyacids, polypropylfumerates, polycaprolactones, **polyamides**, polyacetals, polyethers, polyesters, poly(orthoesters), polycyanoacrylates, **polyvinyl alcohols**, polyurethanes, polyphosphazenes, polyacrylates, **polymethacrylates**, polycyanoacrylates, polyureas, **polystyrenes**, polyamines, polyesters, polyanhydrides, polyethers, polyurethanes, **polymethacrylates**, polyacrylates, polycyanoacrylates, or combinations thereof.

The point that I am making in this article, that the very hydrogels that we find in the blood are known to be programmable and the information can be encrypted. This technology not only tattoos the information into the hydrogel, but can store memories and visual information. Hence it can act like a brain storage. This sounds like digital ID to me:

With further development, materials like these could form the basis of "smart packages" for secure information storage and transfer in logistics, financial transactions or medical treatments.

Hydrogel platform enables versatile data encryption and decryption

Hydrogel platform enables versatile data encryption and decryption

Clever design of composite temperature-responsive hydrogel allows for dynamic, high-resolution information storage and on-...



Logo • Michael Berger



Hydrogels are crosslinked polymer networks that can absorb huge volumes of water. In recent years, significant progress has been made with so-called "stimuli-responsive" hydrogels - materials that change properties in response to environmental triggers like pH or temperature shifts. **Clever integration of these dynamics has enabled hydrogel innovations ranging from drug delivery devices to tissue scaffolds. It turns out such "smart" gels also hold intriguing potential for securely hiding and revealing information - a talent akin to high-tech invisible ink.** By leveraging transparency shifts in the materials, researchers recognized hydrogels could be tuned to obscure patterns, images and other visual data imprinted within the gel matrix. Later application of the proper stimulus reveals the concealed information. However, achieving a hydrogel with the sophistication to excel at such data encryption and decryption has remained beyond reach. Formidable technical barriers span from poor pattern resolution due to shrinkage during transparency shifts to slow responsiveness requiring unwieldy stimuli like extreme pH changes. Now, as detailed in a recent paper published in *Advanced Functional Materials* ("A Paper-Like Hydrogel for Versatile Information Encryption and Decryption Via Chemical-Induced Phase Separation"), **researchers have developed a smart hydrogel platform with unprecedented versatility for the secure recording and storage of confidential visual information.**

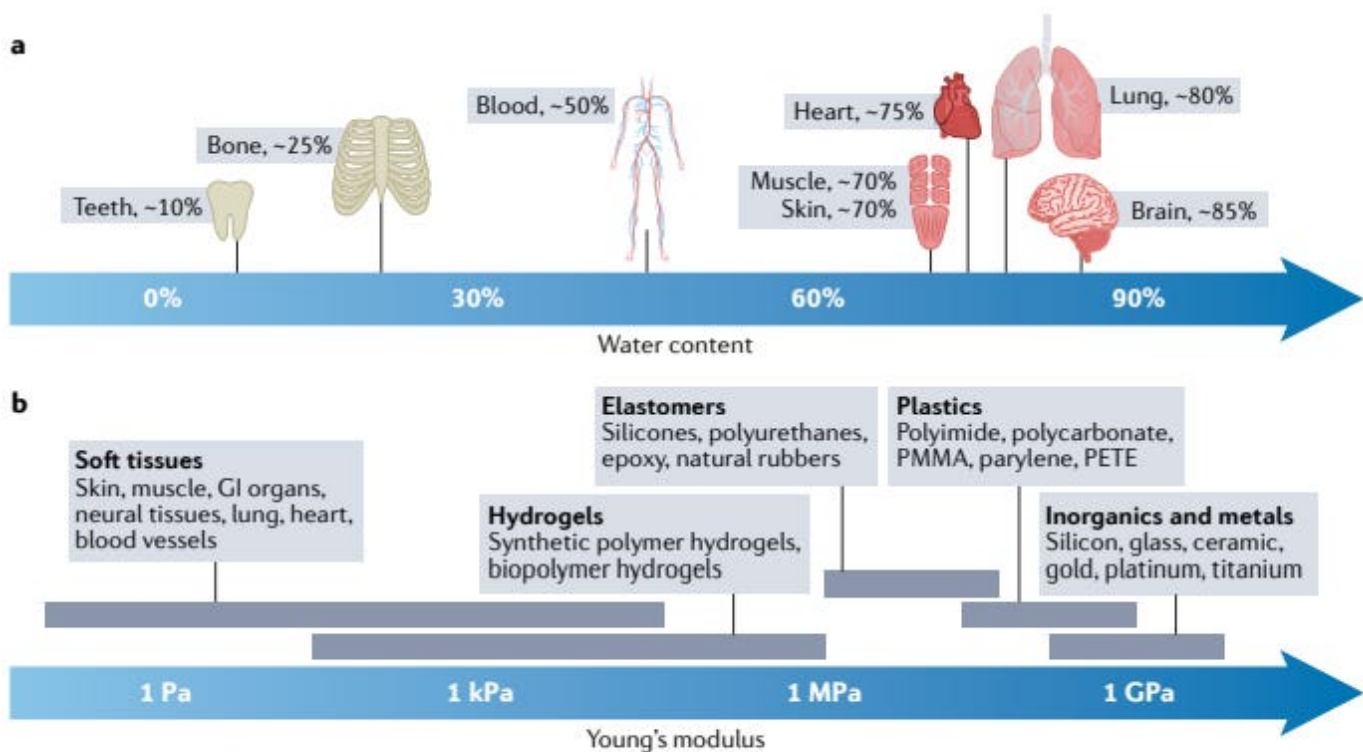
By leveraging hydrogen bonding between two polymer constituents, the research team achieved a paper-like “smart” material with stunning performance. **Chemical inks induce rapid, localized phase separation for high-fidelity information storage. Separate thermal triggers then dynamically encrypt the data.** Such capabilities far surpass existing hydrogels explored for encryption tasks. The lead author, Yue Zhao of Université de Sherbrooke, remarked: “The precision and tunability of our system sets a new standard in dynamic hydrogel information storage. We foresee diverse anti-counterfeiting and logistics applications.” **At the heart of this innovation lies a composite hydrogel comprised of poly(vinyl alcohol) (PVA) and poly(n-vinylcaprolactam) (PNVCL).** The researchers cleverly leverage the properties of both polymers: while the PVA forms a mechanically robust network via hydrogen bonding, the PNVCL allows for chemical-induced phase separation through interactions with various ink molecules. Remarkably, when written on with an ink containing carboxylic acids (-COOH groups), the hydrogel locally transitions from transparent to opaque. This effect stems from hydrogen bonding and $n-\pi$ orbital interactions between the ink molecules and PNVCL, disrupting the equilibrium state of the hydrogel network. The opaque patterns effectively store the “written” information. Unlike other hydrogels, however, this composite system maintains its structural integrity without problematic shrinkage. Minimal volume changes during phase transition allow for excellent pattern resolution. The researchers demonstrated the versatility of this approach by writing with small molecule inks like citric acid or more permanent, macromolecular inks like poly(acrylic acid). **The choice of ink determines the encoded information’s longevity within the hydrogel. Perhaps most notable is the simplicity by which the stored messages or images can be hidden and revealed on demand. Taking advantage of the hydrogel’s thermosresponsive properties, the researchers showed how gentle heating can induce a separate phase change that conceals written patterns throughout the material.** Later, cooling unveils the secreted data. Through clever combination of multiple phase change mechanisms, many modalities of information encryption and decryption are possible. The lead author, Yue Zhao of Université de Sherbrooke, commented on the significance of this work: **“Our hydrogel design principle has opened many new possibilities for information storage and anti-counterfeiting technologies. The versatility of our approach, enabling many modes of encryption/decryption combined with high pattern resolution and fidelity, could inspire next-generation ‘smart’**

hydrogels.” Moving forward, Zhao’s team aims to expand the functionality of their platform. **Ongoing studies are exploring how chemical affinity differences in similar composite hydrogels may enable applications like solvent-based memories, sensors and drug delivery systems. With further development, materials like these could form the basis of "smart packages" for secure information storage and transfer in logistics, financial transactions or medical treatments. Though still in early stages, this research highlights the promising role that responsive hydrogels may play in ever-advancing data encryption and anti-counterfeiting technologies.** Professor Zhao concluded: “Our fundamental studies continue uncovering design principles that improve the real-world usefulness of soft ‘smart’ materials across many fields, contributing to technologies that better society.”

Here is a reminder that hydrogels are used for creation of Cyborgs:

Hydrogel Interfaces for Merging Humans and Machines - MIT Research Review

ANA MARIA MIHALCEA, MD, PHD·AUGUST 2, 2023



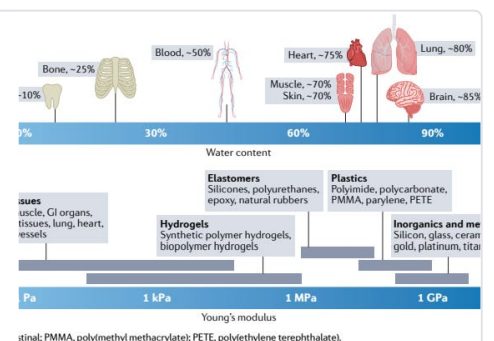
GI, gastrointestinal; PMMA, poly(methyl methacrylate); PETE, poly(ethylene terephthalate).

Hydrogel interfaces for merging humans and machines In this article, MIT researchers are discussing how to fuse humans with machines. I have reported that hydrogel has been found in all humans now, as well as biosensors like Quantum Dot technology. Many people do not want to face the reality that the transhumanist agenda of merging humans with machines h... (read full article in link here

Hydrogel Interfaces for Merging Humans and Machines - MIT Research Review

Hydrogel interfaces for merging humans and machines In this article, MIT researchers are discussing how to fuse humans with...

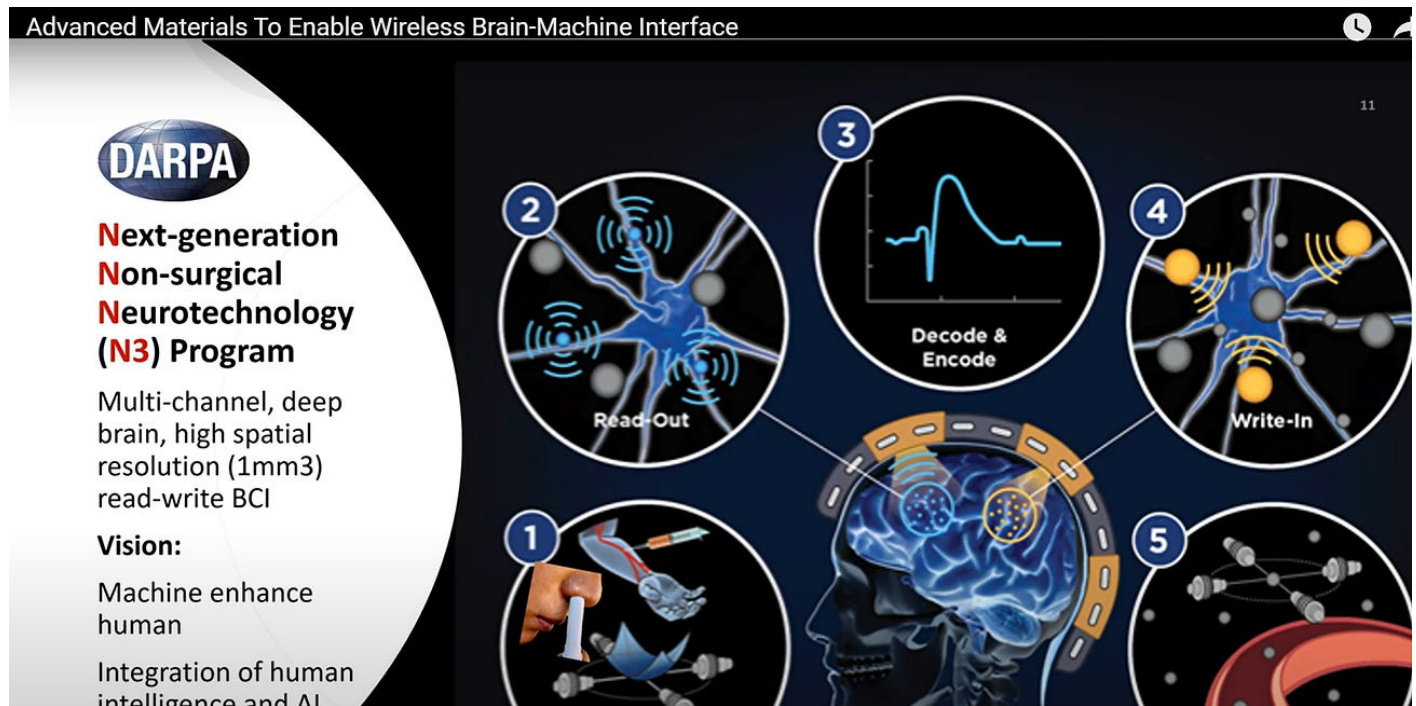
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The next level is the humanoid avatar, or clone. This can also be the cloud based digital twin.

Brain Computer Interface, The Quantum Computing Of Consciousness And The Humanoid Avatar

ANA MARIA MIHALCEA, MD, PHD · NOVEMBER 26, 2023

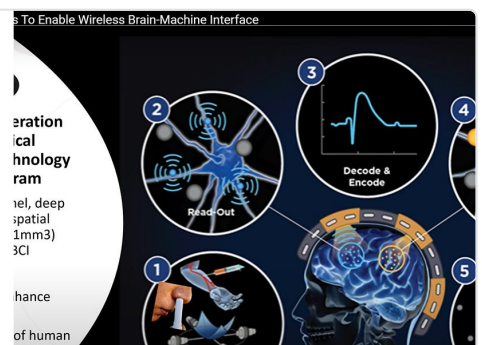


In this lecture, Prof. Sakhrat Khizroev (University of Miami) discusses how new and advanced materials can be used for interfacing machines and the human brain. He explains the research project funded by DARPA and the progress in wireless Brain computer interface via magnetic nanoparticles are key to this technology. I have explained in my previous post...

Brain Computer Interface, The Quantum Computing Of Consciousness And the Humanoid Avatar

In this lecture, Prof. Sakhrat Khizroev (University of Miami) discusses how new and advanced materials can be used for...

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And just a reminder about how interested the military is in this technology:

ANA MARIA MIHALCEA, MD, PHD·AUGUST 17, 2023

SECURITY
2040

BRAIN- COMPUTER INTERFACES

U.S. MILITARY APPLICATIONS AND IMPLICATIONS

AN INITIAL ASSESSMENT

ANIKA BINNENDIJK

TIMOTHY MARLER

ELIZABETH M. BARTELS



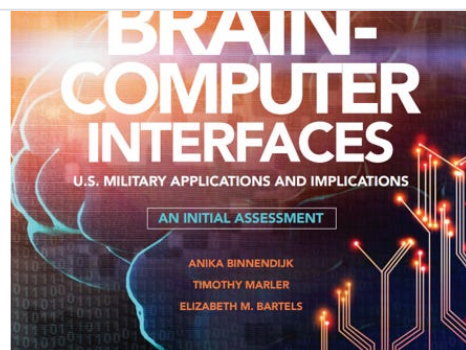
This review was prepared by the Rand Corporation, a defense contractor for the US Military. I continue to discuss different military publications on this topic as I know it is the basis of convergence of human with machine - that the satanic transhumanist technocrats have planned for total world domination. This is to provide evidence to the disbeliever...

Read full article:

Brain Computer Interfaces: US Military Applications and Implications

This review was prepared by the Rand Corporation, a defense contractor for the US Military. I continue to discuss different...

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Summary:

It appears that I am repeating myself over and over, but what my goal is to show people that a pattern is emerging here - one of the militarized and weaponized C19 bioweapon technology with its nanotechnology ingredients of Quantum Dots, hydrogels, metals and more. Go back to Karen Kingston and my interview on all the contents in the C19 bioweapons.

Covid19 Nanotechnology And Synthetic Biology. Conversation With Karen Kingston

ANA MARIA MIHALCEA, MD, PHD·JAN 18



This fabulous interview is now available on my Rumble Channel - make sure to subscribe to see updated video's and interviews. Humanity United Now Rumble You can also view it on Clouthub Clouthub Truth, Science and Spirit In this important interview, world renown pharma insider, expert, and dear friend Karen Kingston discusses with me the self assembly nano...

Read full article:

**Covid19 Nanotechnology And Synthetic Biology.
Conversation With Karen Kingston. Truth, Science And
Spirit Episode 3**

This fabulous interview is now available on my Rumble Channel - make sure to subscribe to see updated video's and interviews....

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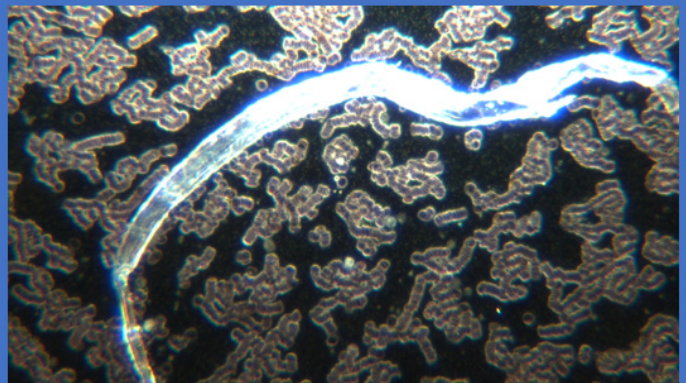
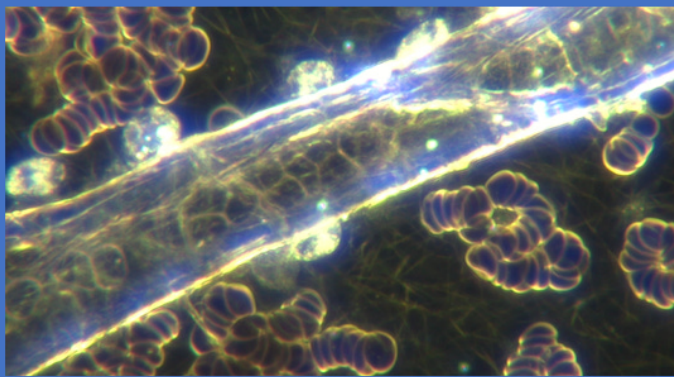


Once you see the connections and the fundamental building blocks of nano technological enslavement, their chemical identifying signatures, you cannot unsee it. Now you know how this works and what the real enemy is. It is these surveillance technologies and they are sprayed from airplanes via geoengineering weather warfare operations, they poison our food, water, medications and ALL vaccines for children, adults and animals hence entering the food chain as I have shown. It is not mRNA in meat, it is self assembly nanotechnology.

Please revisit my research here:

ANA MARIA MIHALCEA, MD, PHD·APRIL 2, 2023

Unvaccinated Live Blood Analysis Dr Ana's Office



A colleague of mine, Dr. David Jernigan treats vaccine injured patients successfully in Tennessee. He called me after I posted the results on Infrared Spectroscopy and electrical conductivity of live blood and confirmed all of my findings. He shared with me, that a short time ago some family members were eating meat and got very ill from it. Dr. Jerniga... Read full article:

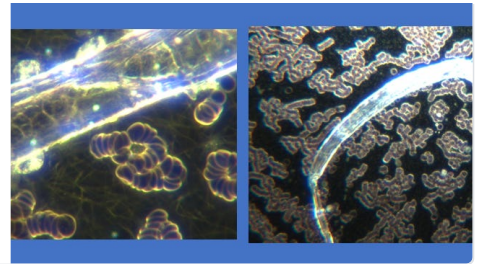
Contaminated Food Supply Contributing Cause To Live Blood Analysis Findings In Unvaccinated? Darkfield Blood

Unvaccinated Live Blood Analysis Dr A

Analysis On Grocery Meat Products

A colleague of mine, Dr. David Jernigan treats vaccine injured patients successfully in Tennessee. He called me after I posted...

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We must bring this discussion worldwide to the attention of all people. If we continue to mislead people by referring ONLY to mRNA and spike proteins, you miss the opportunity to detoxify people from poisonous nanotechnology, metals, and hydrogel plastics, not even mentioning the gene modification through Quantum dots and creation of Cyborgs.

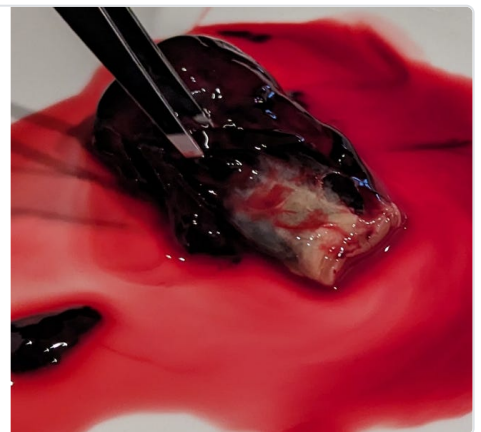
I do not care who you are and what your belief system is and on what side of the freedom movement you are or have been. Look at this evidence and do something to save the human species. Stop ignoring it, every moment you do, more people will die!!!! People are getting the wrong treatment. Nattokinase, regular blood thinners like Eliquis and Coumadin do nothing to dissolve hydrogel plastics and metals. I have shown that:

Rubbery Clot Development In C19 Unvaccinated Individual With Previous Deep Vein Thrombosis and Massive Pulmonary Emboli - While On Eliquis, Nattokinase, Lumbrokinase and Serreptase

Rubbery Clot Development In C19 Unvaccinated Individual With Previous Deep Vein Thrombosis and Massive Pulmonary Emboli - While On Eliquis, Nattokinase, Lumbrokinase and Serreptase

Image: Rubbery Clot of C19 Unvaccinated individual I have been warning about the hydrogel rubbery clots affecting the C19...

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Supposedly doctors do not want to ruin their reputation by talking about nanotechnology. WHY DO YOU CARE MORE ABOUT WHAT OTHER PEOPLE THINK

THEN TO HUMBLE YOURSELF AND SAVE AS MANY LIVES AS YOU CAN BY LEARNING ABOUT THIS THREAT???

The people who judge me and ignore this are the potentially walking dead anyways, because this rubber like material grows in them too. Just ask the embalmers if they think I am right.

Let people judge all they want, and let us **SAVE LIVES**.

Please share this information as much as you can.

Original Article: [https://anamihalceamdphd.substack.com/p/hydrogel-platform-enables-versatile?](https://anamihalceamdphd.substack.com/p/hydrogel-platform-enables-versatile?utm_source=substack&utm_campaign=post_embed&utm_medium=web)
[utm_source=substack&utm_campaign=post_embed&utm_medium=web](https://anamihalceamdphd.substack.com/p/hydrogel-platform-enables-versatile?utm_source=substack&utm_campaign=post_embed&utm_medium=web)

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